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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;
saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27 Oct 21 EVENTLINE has been reloaded
NEWS 28 Oct 24 BEILSTEIN adds new search fields
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
NEWS 32 Nov 25 More calculated properties added to REGISTRY
NEWS 33 Dec 02 TIBKAT will be removed from STN
NEWS 34 Dec 04 CSA files on STN
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36 Dec 17 TOXCENTER enhanced with additional content
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 38 Dec 30 ISMEC no longer available
NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 40 Jan 21 NUTRACEUT offering one free connect hour in February 2003
NEWS 41 Jan 21 PHARMAML offering one free connect hour in February 2003
NEWS 42 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
ENERGY, INSPEC

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),

```

AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
NEWS HOURS      STN Operating Hours Plus Help Desk Availability
NEWS INTER      General Internet Information
NEWS LOGIN       Welcome Banner and News Items
NEWS PHONE       Direct Dial and Telecommunication Network Access to STN
NEWS WWW         CAS World Wide Web Site (general information)

```

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 14:43:21 ON 06 FEB 2003

=> fil reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:43:40 ON 06 FEB 2003
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

```
STRUCTURE FILE UPDATES:      5 FEB 2003  HIGHEST RN 486392-61-4
DICTIONARY FILE UPDATES:    5 FEB 2003  HIGHEST RN 486392-61-4
```

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

```
=>
Uploading 09815362b.str
```

L1 STRUCTURE UPLOADED

```
=> d
L1 HAS NO ANSWERS
L1 STR
```

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 14:43:58 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2453 TO ITERATE

40.8% PROCESSED 1000 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 46090 TO 52030
PROJECTED ANSWERS: 5937 TO 8191

L2 50 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 14:44:01 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 49870 TO ITERATE

100.0% PROCESSED 49870 ITERATIONS 6932 ANSWERS
SEARCH TIME: 00.00.03

L3 6932 SEA SSS FUL L1

=>

Uploading 09815362b.str

L4 STRUCTURE UPLOADED

=> d

L4 HAS NO ANSWERS

L4 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l4

SAMPLE SEARCH INITIATED 14:46:10 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 6223 TO ITERATE

16.1% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 119734 TO 129186
PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L4

=> s l4 full

FULL SEARCH INITIATED 14:46:15 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 124728 TO ITERATE

100.0% PROCESSED 124728 ITERATIONS
SEARCH TIME: 00.00.02

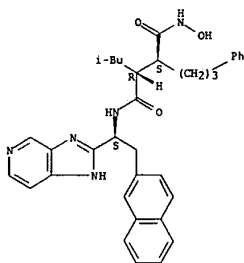
26 ANSWERS

L6 26 SEA SSS FUL L4

=> d scan

L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Butanediamide, N4-hydroxy-N1-[1-(1H-imidazo[4,5-c]pyridin-2-yl)-2-(2-naphthalenyl)ethyl]-2-(2-methylpropyl)-3-(3-phenylpropyl)-, [2R-[1(5*),2R*,3S*]]- (9CI)
 MF C35 H39 N5 O3

Absolute stereochemistry.

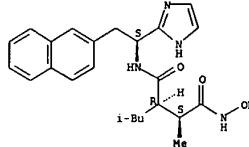


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):25

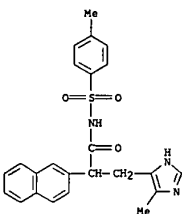
L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Butanediamide, N1-hydroxy-N4-[1-(1H-imidazol-2-yl)-2-(2-naphthalenyl)ethyl]-2-methyl-3-(2-methylpropyl)-, [2S-[2R*,3S*,4(R*)]]- (9CI)
 MF C24 H30 N4 O3

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

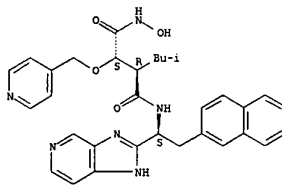
L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN 1H-Imidazole-4-propanamide, 5-methyl-N-[(4-methylphenyl)sulfonyl]-.alpha.-2-naphthalenyl- (9CI)
 MF C24 H23 N3 O3 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

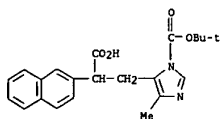
L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Butanediamide, N4-hydroxy-N1-[1-(1H-imidazo[4,5-c]pyridin-2-yl)-2-(2-naphthalenyl)ethyl]-2-(2-methylpropyl)-3-(4-pyridinylmethoxy)-, [2R-[1(5*),2R*,3S*]]- (9CI)
 MF C32 H34 N6 O4

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

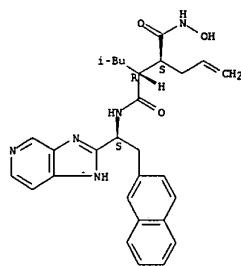
L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN 1H-Imidazole-5-propanoic acid, 1-[(1,1-dimethylethoxy)carbonyl]-4-methyl-
 .alpha.-2-naphthalenyl- (9CI)
 MF C22 H24 N2 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

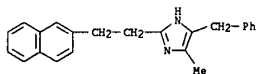
L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Butanediamide, N4-hydroxy-N1-[1-[(1H-imidazo[4,5-c]pyridin-2-yl)-2-(2-naphthalenyl)ethyl]-2-(2-methylpropyl)-3-(2-propenyl)-, [2R-[1(S*),2R*,3S*]]- (9CI)
 MF C29 H33 N5 O3

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

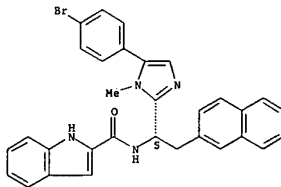
L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN 1H-Imidazole, 4-methyl-2-[2-(2-naphthalenyl)ethyl]-5-(phenylmethyl)- (9CI)
 MF C23 H22 N2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN 1H-Indole-2-carboxamide, N-[(1S)-1-[5-(4-bromophenyl)-1-methyl-1H-imidazol-2-yl]-2-(2-naphthalenyl)ethyl]- (9CI)
 MF C31 H25 Br N4 O

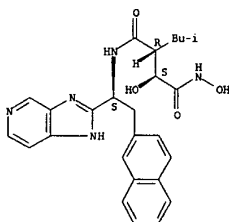
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

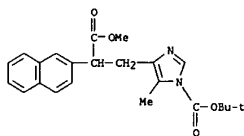
L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Butanediamide, N1,2-dihydroxy-N4-[1-([1H-imidazo[4,5-c]pyridin-2-yl)-2-(2-naphthalenyl)ethyl]-3-(2-methylpropyl)-, [2S-[2R*,3S*,4(R*)]]- (9CI)
 MF C26 H29 N5 O4

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

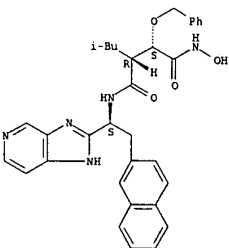
L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN 1H-imidazole-4-propanoic acid, 1-[(1,1-dimethylethoxy)carbonyl]-5-methyl-.alpha.-2-naphthalenyl-, methyl ester (9CI)
 MF C23 H26 N2 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

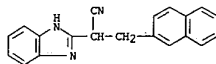
L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Butanediamide, N4-hydroxy-N1-[1-([1H-imidazo[4,5-c]pyridin-2-yl)-2-(2-naphthalenyl)ethyl]-2-(2-methylpropyl)-3-(phenylmethoxy)-, [2R-[1(S*),2R*,3S*]]- (9CI)
 MF C33 H35 N5 O4

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

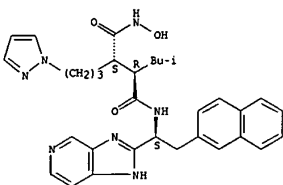
L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN 1H-Benzimidazole-2-acetonitrile, .alpha.-(2-naphthalenylmethyl)- (9CI)
 MF C20 H15 N3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

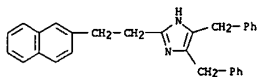
L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Butanediamide, N4-hydroxy-N1-[1-(1H-imidazo[4,5-c]pyridin-2-yl)-2-(2-naphthalenyl)ethyl]-2-(2-methylpropyl)-3-[3-(1H-pyrazol-1-yl)propyl]-, [2R-[1(S*),2R*,3S*]]- (9CI)
 MF C32 H37 N7 O3

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

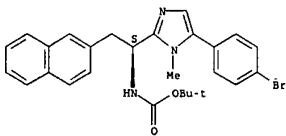
L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN 1H-imidazole, 2-[2-(2-naphthalenyl)ethyl]-4,5-bis(phenylmethyl)- (9CI)
 MF C29 H26 N2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Carbamic acid, [(1S)-1-[5-(4-bromophenyl)-1-methyl-1H-imidazol-2-yl]-2-(2-naphthalenyl)ethyl]-, 1,1-dimethylethyl ester (9CI)
 MF C27 H28 Br N3 O2

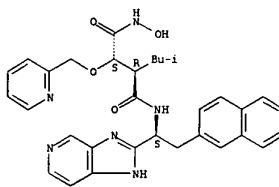
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

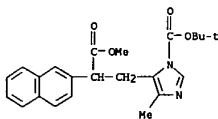
L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Butanediamide, N4-hydroxy-N1-[1-(1H-imidazo[4,5-c]pyridin-2-yl)-2-(2-naphthalenyl)ethyl]-2-(2-methylpropyl)-3-(2-pyridinylmethoxy)-, [2R-[1(S*),2R*,3S*]]- (9CI)
 MF C32 H34 N6 O4

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

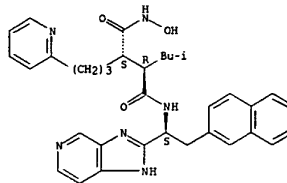
L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN 1H-Imidazole-5-propanoic acid, 1-[(1,1-dimethylethoxy)carbonyl]-4-methyl-
 .alpha.-2-naphthalenyl-, methyl ester (9CI)
 MF C23 H26 N2 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

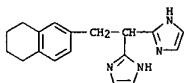
L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Butanediamide, N4-hydroxy-N1-[1-(1H-imidazo[4,5-c]pyridin-2-yl)-2-(2-naphthalenyl)ethyl]-2-(2-methylpropyl)-3-[3-(2-pyridinyl)propyl]-, [2R-[1(S*),2R*,3S*]]- (9CI)
 MF C34 H38 N6 O3

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

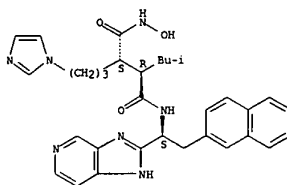
L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN 1H-Imidazole, 2,2'-[2-(5,6,7,8-tetrahydro-2-naphthalenyl)ethylidene]bis- (9CI)
 MF C18 H20 N4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Butanediamide, N1-hydroxy-N4-[1-(1H-imidazo[4,5-c]pyridin-2-yl)-2-(2-naphthalenyl)ethyl]-2-[3-(1H-imidazol-1-yl)propyl]-3-(2-methylpropyl)-, [2S-[2R*,3S*,4(R*)]]- (9CI)
 MF C32 H37 N7 O3

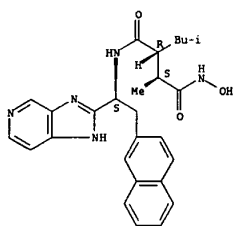
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Butanediamide, N1-hydroxy-N4-[1-[(1H-imidazo[4,5-c]pyridin-2-yl)-2-(2-naphthalenyl)ethyl]-2-methyl-3-(2-methylpropyl)-, [2S-[2R*,3S*,4(R*)]]-(9CI)
 MF C27 H31 N5 O3

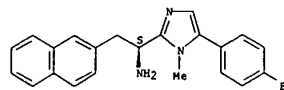
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN 1H-imidazole-2-methanamine, 5-(4-bromophenyl)-1-methyl-.alpha.-(2-naphthalenylmethyl)-, (.alpha.S)- (9CI)
 MF C22 H20 Br N3

Absolute stereochemistry.

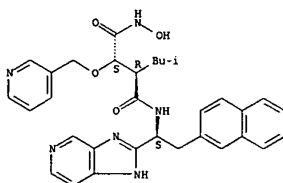


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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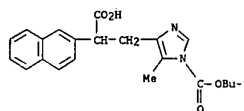
L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Butanediamide, N4-hydroxy-N1-[1-[(1H-imidazo[4,5-c]pyridin-2-yl)-2-(2-naphthalenyl)ethyl]-2-(2-methylpropyl)-3-(3-pyridylmethoxy)-, [2R-[1(S*),2R*,3S*]]-(9CI)
 MF C32 H34 N6 O4

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

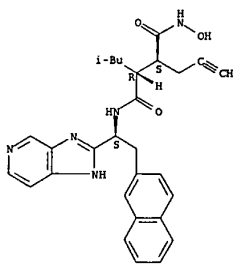
L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN 1H-imidazole-4-propanoic acid, 1-[(1,1-dimethylethoxy)carbonyl]-5-methyl-.alpha.-2-naphthalenyl- (9CI)
 MF C22 H24 N2 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

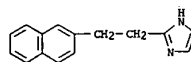
L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN Butanediamide, N4-hydroxy-N1-[1-([1H-imidazo[4,5-c]pyridin-2-yl)-2-(2-naphthalenyl)ethyl]-2-(2-methylpropyl)-3-(2-propynyl)-,
 [2R-[1(5*),2R*,3S*]]- (9CI)
 MF C29 H31 N5 O3

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 26 ANSWERS REGISTRY COPYRIGHT 2003 ACS
 IN 1H-imidazole, 2-[2-(2-naphthalenyl)ethyl]- (9CI)
 MF C15 H14 N2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=>

Uploading 09815362b.str

L7 STRUCTURE UPLOADED

=> d

L7 HAS NO ANSWERS

L7 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s l7

SAMPLE SEARCH INITIATED 14:48:42 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 6223 TO ITERATE

16.1% PROCESSED 1000 ITERATIONS 7 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
PROJECTED ITERATIONS: 119734 TO 129186
PROJECTED ANSWERS: 475 TO 1267

L8 7 SEA SSS SAM L7

=> s l7 full

FULL SEARCH INITIATED 14:48:45 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 124728 TO ITERATE

100.0% PROCESSED 124728 ITERATIONS 464 ANSWERS
SEARCH TIME: 00.00.02

L9 464 SEA SSS FUL L7

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	446.85	447.06

FILE 'CAPLUS' ENTERED AT 14:48:51 ON 06 FEB 2003

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strictly prohibited.

FILE COVERS 1907 - 6 Feb 2003 VOL 138 ISS 6
FILE LAST UPDATED: 5 Feb 2003 (20030205/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s 19

L10 67 L9

=> s 110 and adrenergic

68996 ADRENERGIC

255 ADRENERGICS

69040 ADRENERGIC

(ADRENERGIC OR ADRENERGICS)

L11 8 L10 AND ADRENERGIC

=> d ibib abs hitstr 1-8

L11 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:754359 CAPLUS

DOCUMENT NUMBER: 137:263032

TITLE: Preparation of imidazoles as selective agonists at .alpha.2B or .alpha.2B/.alpha.2C adrenergic receptors

INVENTOR(S): Chow, Ken; Gil, Daniel W.; Burke, James A.; Harcourt, Dale A.; Garst, Michael E.; Wheeler, Larry A.; Munk, Stephen A.; Gomez, Dario G.

PATENT ASSIGNEE(S): Allergan, Inc., USA

SOURCE: PCT Int. Appl., 141 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

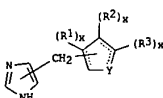
FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002076950	A2	20021003	WO 2002/US8222	20020313
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GB, GM, KE, LS, MG, MW, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 2003023098	A1	20030130	US 2001-815362	20010321
PRIORITY APPLN. INFO.:			US 2001-815362	A 20010321
			US 1997-985347	B2 19971204
			US 1998-205597	B2 19981204
			US 1999-329752	B2 19990610

OTHER SOURCE(S): MARPAT 137:263032

GI



AB Compds. (shown as I), which are selective agonists at .alpha.2B or .alpha.2B/.alpha.2C adrenergic receptors and useful for the treatment of conditions including pain, particularly chronic pain, glaucoma or elevated intraocular pressure with reduced cardiovascular or sedative side effects, are claimed. Also included are methods of making and using such compds. In I, each x is independently 1 or 2; each R1 is independently H; halogen; Cl-4 alkyl; Cl-4 alkenyl; Cl-4 alkynyl; -COR4 where R4 is H, Cl-4 alkyl or Cl-4 alkoxy; C3-6 cycloalkyl; aryl; heteroaryl; cyano; nitro; trihalomethyl; oxo; or -(CH2)n-X-(CH2)m-(R5) where R5 is Me or H1-2.

L11 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS (Continued)

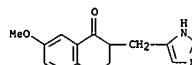
where X is O, S or N, n is 0-3, m is 0-3, o is 0-1, and R5 is Me or H1-2. Each R2 and each R3 are independently H; halogen; Cl-4 alkyl; Cl-4 alkenyl; Cl-4 alkynyl; -COR4 where R4 is H, Cl-4 alkyl or Cl-4 alkoxy; C3-6 cycloalkyl; aryl; heteroaryl; cyano; nitro; trihalomethyl; oxo; or -(CH2)n-X-(CH2)m-(R5) where X is O, S or N, n is 0-3, m is 0-3, o is 0-1, and R5 is Me or H1-2; or an R2 and an R3 together condense to form a said, partly said, or unsatd. ring structure having the formula -[C(R6)p]q-X-[C(R6)p]r-X-[C(R6)p]u where each R6 is independently H; halogen; Cl-4 alkyl; Cl-4 alkenyl; Cl-4 alkynyl; -COR4 where R4 is H, Cl-4 alkyl or Cl-4 alkoxy; C3-6 cycloalkyl; aryl; heteroaryl; cyano; nitro; trihalomethyl and oxo where each p is independently 1 or 2, q is 0-5, r is 0-5, u is 0-5. Each X is independently O, S, or N and s is 0 or 1; provided that q + r + u + s < 6. Y is O; S; H; -[C(R7)]r-s, where each R7 is independently as previously defined for R1, each z is independently 1-2, and s is 1-3; -CH-; -CH-CH-; or YICH2, where Y1 is O, N, or S; and the dotted lines in I are optional double bonds, with the proviso that if the ring including Y is a cyclohexane ring or a heterocyclic 5 member ring said ring is not fully unsatd., and that if Y is O, N or S, the ring including Y contains at least one said double bond. Intrinsic activities towards .alpha.2A, .alpha.2B, .alpha.2C adrenergic receptors of .apprx.100 of the claimed compds. relative to brimonidine/oxymetazoline are tabulated. Although the methods of prepn. are not claimed, .apprx.100 example preps. are included.

IT 157058-47-4P, 1(2H)-Naphthalene, 3,4-dihydro-2-(1H-imidazol-4-ylmethyl)-7-methoxy

RL: BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (prepn. of imidazoles as selective agonists at .alpha.2B or .alpha.2B/.alpha.2C adrenergic receptors)

RN 157058-47-4 CAPLUS

CN 1(2H)-Naphthalene, 3,4-dihydro-2-(1H-imidazol-4-ylmethyl)-7-methoxy- (9CI) (CA INDEX NAME)



IT 157058-44-1P, 1(2H)-Naphthalene, 3,4-dihydro-2-(1H-imidazol-4-ylmethyl)- 157058-52-1P, 1H-imidazole, 4-[(1,2,3,4-tetrahydro-2-naphthalenyl)methyl]- 157058-55-4P, 1H-imidazole, 4-[(1,2,3,4-tetrahydro-7-methoxy-2-naphthalenyl)methyl]- 226570-89-4P, 1H-imidazole, 4-[(1,2,3,4-tetrahydro-7-methoxy-2-naphthalenyl)methyl]-, monohydrochloride 226571-02-4P, 1(2H)-Naphthalene, 3,4,5,6,7,8-hexahydro-2-(1H-imidazol-4-ylmethyl)- 226571-05-7P, 1H-imidazole, 4-[(1,2,3,4,5,6,7,8-octahydro-2-naphthalenyl)methyl]- 226571-13-7P, 1H-imidazole, 4-[(1,2,3,4,5,6,7,8-octahydro-2-naphthalenyl)methyl]- 226571-14-8P, 1H-imidazole, 4-[(1,2,3,4,5,6,7,8-octahydro-2-naphthalenyl)methyl]- 226571-25-1P, 1H-imidazole, 4-[(1,2,3,4,5,6,7,8-octahydro-2-naphthalenyl)methyl]- 226571-26-2P, 1(2H)-Naphthalene, 3,4-dihydro-2-(1H-imidazol-4-ylmethyl)-4-methyl- 226571-35-3P,

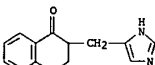
L11 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS (Continued)

1H-imidazole, 4-[(1,2,3,4-tetrahydro-4,4-dimethyl-2-naphthalenyl)methyl]- 226571-36-4P, 1H-imidazole, 4-[(1,2,3,4-tetrahydro-7-methyl-2-naphthalenyl)methyl]-, monohydrochloride 226571-37-5P, 1(2H)-Naphthalene, 3,4-dihydro-2-(1H-imidazol-4-ylmethyl)-7-methyl- RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of imidazoles as selective agonists at .alpha.2B or .alpha.2B/.alpha.2C adrenergic receptors)

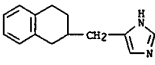
RN 157058-44-1 CAPLUS

CN 1(2H)-Naphthalene, 3,4-dihydro-2-(1H-imidazol-4-ylmethyl)- (9CI) (CA INDEX NAME)



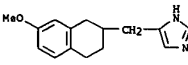
RN 157058-52-1 CAPLUS

CN 1H-imidazole, 4-[(1,2,3,4-tetrahydro-2-naphthalenyl)methyl]- (9CI) (CA INDEX NAME)



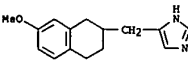
RN 157058-55-4 CAPLUS

CN 1H-imidazole, 4-[(1,2,3,4-tetrahydro-7-methoxy-2-naphthalenyl)methyl]- (9CI) (CA INDEX NAME)



RN 226570-89-4 CAPLUS

CN 1H-imidazole, 4-[(1,2,3,4-tetrahydro-7-methoxy-2-naphthalenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)

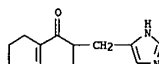


● HCl

L11 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS (Continued)

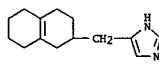
RN 226571-02-4 CAPLUS

CN 1(2H)-Naphthalene, 3,4,5,6,7,8-hexahydro-2-(1H-imidazol-4-ylmethyl)- (9CI) (CA INDEX NAME)



RN 226571-05-7 CAPLUS

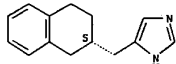
CN 1H-imidazole, 4-[(1,2,3,4,5,6,7,8-octahydro-2-naphthalenyl)methyl]- (9CI) (CA INDEX NAME)



RN 226571-13-7 CAPLUS

CN 1H-imidazole, 4-[(1,2,3,4,5,6,7,8-octahydro-2-naphthalenyl)methyl]- (9CI) (CA INDEX NAME)

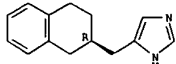
Absolute stereochemistry.



RN 226571-14-8 CAPLUS

CN 1H-imidazole, 4-[(1,2,3,4-tetrahydro-2-naphthalenyl)methyl]- (9CI) (CA INDEX NAME)

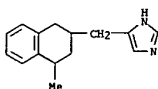
Absolute stereochemistry.



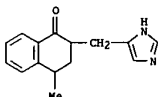
RN 226571-25-1 CAPLUS

CN 1H-imidazole, 4-[(1,2,3,4-tetrahydro-4-methyl-2-naphthalenyl)methyl]- (9CI) (CA INDEX NAME)

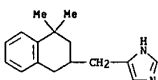
L11 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS (Continued)



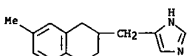
RN 226571-26-2 CAPLUS
CN 1(2H)-Naphthalenone, 3,4-dihydro-2-[(1H-imidazol-4-ylmethyl)-4-methyl-
(9CI) (CA INDEX NAME)



RN 226571-35-3 CAPLUS
CN 1H-Imidazole, 4-[(1,2,3,4-tetrahydro-4,4-dimethyl-2-naphthalenyl)methyl]-
(9CI) (CA INDEX NAME)



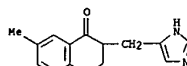
RN 226571-36-4 CAPLUS
CN 1H-Imidazole, 4-[(1,2,3,4-tetrahydro-7-methyl-2-naphthalenyl)methyl]-,
monohydrochloride (9CI) (CA INDEX NAME)



● HCl

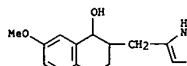
RN 226571-37-5 CAPLUS
CN 1(2H)-Naphthalenone, 3,4-dihydro-2-[(1H-imidazol-4-ylmethyl)-7-methyl-
(9CI) (CA INDEX NAME)

L11 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS (Continued)



IT 226571-57-9P, 1-Naphthalenol, 1,2,3,4-tetrahydro-2-[(1H-imidazol-4-
ylmethyl)-7-methoxy-
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(prepn. of imidazoles as selective agonists at .alpha.2b or
.alpha.2b/.alpha.2c adrenergic receptors)

RN 226571-57-9 CAPLUS
CN 1-Naphthalenol, 1,2,3,4-tetrahydro-2-[(1H-imidazol-4-ylmethyl)-7-methoxy-
(9CI) (CA INDEX NAME)



L11 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS

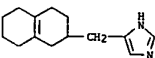
ACCESSION NUMBER: 2002:353314 CAPLUS
DOCUMENT NUMBER: 136:365878
TITLE: Methods and compositions for treatment of ocular
neovascularization and neural injury
INVENTOR(S): Burke, James A.; Lin, Toni; Wheeler, Larry A.; De
Vries, Gerald W.
PATENT ASSIGNEE(S): Allergan Sales, Inc., USA
SOURCE: PCT Int. Appl., 31 pp.
CODEN: PIXOD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002036162	A2	20020510	WO 2001-US46014	20011101
V: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, ME, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, HC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, CA, GN, GQ, GW, ML, MR, NE, SH, TD, TG				
AU 2002030567	A5	20020515	AU 2002-30567	20011101
US 2002094998	A1	20020718	US 2001-998718	20011101
PRIORITY APPLN. INFO.: US 2000-244850P P 20001101				
WO 2001-US46014 W 20011101				

AB Methods and compns. for the treatment of ocular neovascularization (CNV) and macular degeneration are disclosed. The invention includes combining laser treatment with administration of a neuroprotectant. Seven pigmented rabbits were dosed with either 0.5 mL 0.2% brimonidine or saline administered in 1 eye of each rabbit. One hour later, the animals were treated with a 10-min i.v. infusion of 0.2 mg/kg verteporfin, then the same eye was irradiated 10 min later in the lower fundus with a 689-nm diode laser at 50 J/cm², 600 mW/cm² and a spot size of 1.5 mm. Brimonidine reduced the increase in retinal thickness (subretinal cyst + retina) in the lesion produced by PDT.

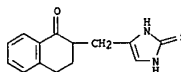
IT 226571-05-7, AGN 795 423773-40-4, AGN 960
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(methods and compns. for treatment of ocular neovascularization and neural injury)

RN 226571-05-7 CAPLUS
CN 1H-Imidazole, 4-[(1,2,3,4,5,6,7,8-octahydro-2-naphthalenyl)methyl]- (9CI)
(CA INDEX NAME)



RN 423773-40-4 CAPLUS
CN 1(2H)-Naphthalenone, 2-[(2,3-dihydro-2-thioxo-1H-imidazol-4-yl)methyl]-3,4-dihydro- (9CI) (CA INDEX NAME)

L11 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS (Continued)



L11 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:85068 CAPLUS

DOCUMENT NUMBER: 134:26081

TITLE:

AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

PUBLISHER:

DOCUMENT TYPE:

LANGUAGE:

AB

Classical antidepressants are thought to act by raising monoamine (serotonin and noradrenaline) levels in the brain. This action is generally accomplished either by inhibition of monoamine metab. (MAO inhibitors) or by blockade of monoamine uptake (tricyclic antidepressants and selective serotonin or noradrenaline reuptake inhibitors). However, all such agents suffer from a time lag (3-6 wk) before robust clinical efficacy can be demonstrated. This delay may reflect inhibitory actions of noradrenaline at presynaptic α .2A-adrenergic auto- or heteroreceptors which gradually down-regulate upon prolonged exposure. Blockade of presynaptic α .2A-adrenoceptors by an antagonist endowed with monoamine uptake inhibition properties could lead to new antidepressants with greater efficacy and a shorter time lag. In the literature, only two mols. have been described with such a pharmacol. profile. Of these, napamezole was chosen as a point of departure for the design of 4(5)-[(3,4-dihydro-2-naphthalenyl)methyl]-4,5-dihydroimidazole, which displayed the desired profile: α .2A-adrenoceptor antagonist properties and serotonin/noradrenaline uptake inhibition. From this original mol., a series of deriva. was designed and synthesized, encompassing substituted as well as rigid analogs. Structure-activity relationships permitted the selection of 4(5)-[(5-fluorindan-2-yl)methyl]-4,5-dihydroimidazole as a development candidate.

IT

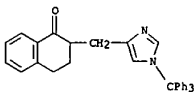
331992-77-99 331992-78-09
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent);
 (prepn. and structure-activity relations of potential antidepressants displaying combined α .2A-adrenoceptor antagonist and monoamine uptake inhibitor activities)

RN

331992-77-9 CAPLUS

CN

1(2H)-Naphthalenone, 3,4-dihydro-2-[[1-(triphenylmethyl)-1H-imidazol-4-yl)methyl]- (9CI) (CA INDEX NAME)



RN 331992-78-0 CAPLUS

L11 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:12424 CAPLUS

DOCUMENT NUMBER: 134:86245

TITLE:

INVENTOR(S):

PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

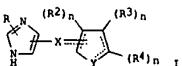
FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001000586	A1	20010104	WO 2000-US15795	20000608
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1104407	A1	20010606	EP 2000-939699	20000608
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2002156076	A1	20021024	US 2001-948001	20010906
PRIORITY APPLN. INFO.: US 1999-329752 A 19990610				
US 1997-985347 B2 19971204				
US 1998-205597 B2 19981204				
WO 2000-US15795 W 20000608				
US 2000-679919 A1 20001005				

OTHER SOURCE(S):

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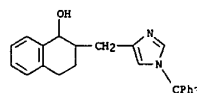


AB

Title compds. (I) dotted lines = optional double bonds; R = H, alkyl; X = S, CHR1; R1 = H, alkyl, null; Y = O, N, S, [C(R1)]n, CH:CH, Y1CH2; y = 1-3; n = 1, 2; R2 = H, alkyl, halo, OH, alkoxy, alkenyl, acyl, alkynyl, etc.; R3, R4 = H, alkyl, halo, alkenyl, acyl, alkynyl, etc.; R3R4 = atoms to form (unsatd.) (heterocyclic) rings, were prepd. Thus, 1-(dimethylsulfonyl)imidazole in THF at -78.degree. was treated with BuLi and tert-butylidimethylsilyl chloride followed by warming to room temp., stirring overnight, cooled to -20.degree., and treatment with BuLi and 3-thiophenecarboxaldehyde followed by warming to room temp. and stirring

L11 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS (Continued)

CN 1-Naphthalenol, 1,2,3,4-tetrahydro-2-[[1-(triphenylmethyl)-1H-imidazol-4-yl)methyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

37

THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS (Continued)

overnight to give 2-(tert-butylidimethylsilyl)-5-(hydroxythiophen-2-ylmethyl)imidazole-1-sulfonic acid dimethylamide. This was treated sequentially with Bu4NF, Et3SiH/CF3CO2H/CH2Cl2, and aq. HCl to give 4(5)-thiophen-3-ylmethyl-1H-imidazole. Tested I as eyedrops at 0.03-1% reduced intraocular pressure in cynomolgus monkeys by 12.4-33% and showed no sedative activity.

IT

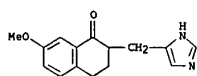
157058-47-4P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (prepn. of imidazoles as selective agonists at α .2b or α .2c adrenergic receptors)

RN

157058-47-4 CAPLUS

CN

1(2H)-Naphthalenone, 3,4-dihydro-2-[(1H-imidazol-4-ylmethyl)-7-methoxy- (9CI) (CA INDEX NAME)



IT

157058-55-4P 226570-89-4P 226571-02-4P

226571-05-7P

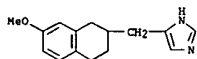
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of imidazoles as selective agonists at α .2b or α .2c adrenergic receptors)

RN

157058-55-4 CAPLUS

CN

1H-imidazole, 4-[(1,2,3,4-tetrahydro-7-methoxy-2-naphthalenyl)methyl]- (9CI) (CA INDEX NAME)

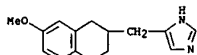


RN

226570-89-4 CAPLUS

CN

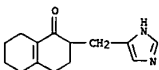
1H-imidazole, 4-[(1,2,3,4-tetrahydro-7-methoxy-2-naphthalenyl)methyl]-, monohydrochloride (9CI) (CA INDEX NAME)



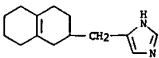
● HCl

L11 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 226571-02-4 CAPLUS
 CN 1(2H)-Naphthalenone, 3,4,5,6,7,8-hexahydro-2-(1H-imidazol-4-ylmethyl)- (9CI) (CA INDEX NAME)

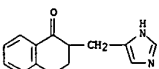


RN 226571-05-7 CAPLUS
 CN 1H-Imidazole, 4-[(1,2,3,4,5,6,7,8-octahydro-2-naphthalenyl)methyl]- (9CI) (CA INDEX NAME)

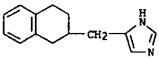


IT 157058-44-1 157058-52-1 226571-13-7
 226571-14-8 226571-25-1 226571-26-2
 226571-35-3 226571-36-4 226571-37-5
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (prepn. of imidazoles as selective agonists at .alpha.2b or .alpha.2b/.alpha.2c adrenergic receptors)

RN 157058-44-1 CAPLUS
 CN 1(2H)-Naphthalenone, 3,4-dihydro-2-(1H-imidazol-4-ylmethyl)- (9CI) (CA INDEX NAME)

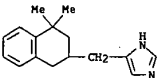


RN 157058-52-1 CAPLUS
 CN 1H-Imidazole, 4-[(1,2,3,4-tetrahydro-2-naphthalenyl)methyl]- (9CI) (CA INDEX NAME)

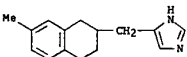


RN 226571-13-7 CAPLUS
 CN 1H-Imidazole, 4-[(2S)-1,2,3,4-tetrahydro-2-naphthalenyl)methyl]- (9CI)

L11 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS (Continued)

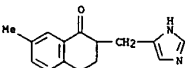


RN 226571-36-4 CAPLUS
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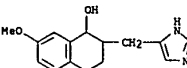
● HCl

RN 226571-37-5 CAPLUS
 CN 1(2H)-Naphthalenone, 3,4-dihydro-2-(1H-imidazol-4-ylmethyl)-7-methyl- (9CI) (CA INDEX NAME)



IT 226571-57-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. of imidazoles as selective agonists at .alpha.2b or .alpha.2b/.alpha.2c adrenergic receptors)

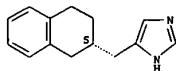
RN 226571-57-9 CAPLUS
 CN 1-Naphthalenol, 1,2,3,4-tetrahydro-2-(1H-imidazol-4-ylmethyl)-7-methoxy- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

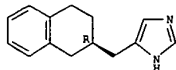
L11 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS (Continued)

Absolute stereochemistry.

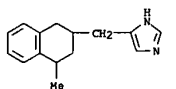


RN 226571-14-9 CAPLUS
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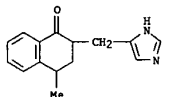
Absolute stereochemistry.



RN 226571-25-1 CAPLUS
 CN 1H-Imidazole, 4-[(1,2,3,4-tetrahydro-4-methyl-2-naphthalenyl)methyl]- (9CI) (CA INDEX NAME)



RN 226571-26-2 CAPLUS
 CN 1(2H)-Naphthalenone, 3,4-dihydro-2-(1H-imidazol-4-ylmethyl)-4-methyl- (9CI) (CA INDEX NAME)



RN 226571-35-3 CAPLUS
 CN 1H-Imidazole, 4-[(1,2,3,4-tetrahydro-4,4-dimethyl-2-naphthalenyl)methyl]-

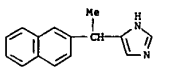
L11 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:612212 CAPLUS
 DOCUMENT NUMBER: 123:198691
 TITLE: Medetomidine analogs as .alpha.-adrenergic agonists
 AUTHOR(S): Amemiya, Yoshiya; Hus, Fulian; Shams, Gamal; Feller, Dennis R.; Venkataraman, B. V.; Patil, Popat N.; Miller, Duane D.
 CORPORATE SOURCE: College Pharmacy, Ohio State University, Columbus, OH, 43210, USA
 SOURCE: Egyptian Journal of Pharmaceutical Sciences (1994), 35(1-6), 403-10
 CODEN: EJPSBE; ISSN: 0301-5068
 PUBLISHER: National Information and Documentation Centre
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 123:198691

AB Recently, it has been reported that medetomidine is a new 4-substituted imidazole analog possessing selective and potent .alpha.2-adrenergic properties. It has been shown that it reduces blood pressure, heart rate and saliva secretion. At the present time is sedative and hypotensive effects seem to be manifest in the same dose range. We have initiated a program to see if it is possible to sep. these activities with analogs of medetomidine. The initial studies have been directed at procedures for the conversion of the imidazoles, a common structure of .alpha.-adrenergic drugs, to the corresponding imidazoles. It was found that 2-substituted and 2,4-disubstituted imidazoles can easily be converted into imidazoles using 10% Pd/C in refluxing toluene, while in some instances there are some difficulties with the conversion of 4-substituted imidazoles to the imidazoles. The synthesis of 1- or 2-(2- or 4-imidazolylmethyl)naphthalene analogs of medetomidine are also described.

IT 137967-88-5P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (prepn. of 4-substituted imidazoles)

RN 137967-88-5 CAPLUS
 CN 1H-Imidazole, 4-[(1-(2-naphthalenyl)ethyl)- (9CI) (CA INDEX NAME)



L11 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:61218 CAPLUS

DOCUMENT NUMBER: 123:111932

TITLE: Synthesis and .alpha.-adrenergic activities of 2- and 4-substituted imidazoline and imidazole analogs of .alpha.- and .beta.-naphthalene

AUTHOR(S): Anemiya, Yoshiya; Venkataraman, Burrah V.; Patil, Popat N.; Shama, Gamal; Romstedt, Karl

CORPORATE SOURCE: College Pharmacy, Ohio State University, Columbus, OH, 43210, USA

SOURCE: Egyptian Journal of Pharmaceutical Sciences (1994), 35(1-6), 91-112

CODEN: EUPSBZ; ISSN: 0301-5068

PUBLISHER: National Information and Documentation Centre

DOCUMENT TYPE: Journal

LANGUAGE: English

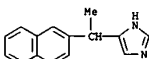
AB Seven analogs of medetomidine and naphazoline were synthesized and evaluated for their .alpha.1- (aorta) and .alpha.2- (platelet) activities. The analogs were composed of 2- and 4-substituted imidazoles and imidazolines attached through a methylene bridge to either an .alpha.- or .beta.-naphthalene ring system. In general the .alpha.-naphthlene analogs were found to be the most potent inhibitors of platelet aggregation. .alpha.-Naphthalene analogs were partial agonists while the .beta.-naphthalene analogs were antagonists in .alpha.1-adrenergic system (aorta).

IT 137967-82-9P 166034-65-7P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(Synthesis and adrenergic activities of medetomidine and naphazoline analogs)

RN 137967-82-9 CAPLUS

CN 1H-Imidazole, 4-[1-(2-naphthalenyl)ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 166034-65-7 CAPLUS

CN 1H-Imidazole, 4-[1-(2-naphthalenyl)ethyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CH 1

CRN 137967-88-5

CMF C15 H14 N2

L11 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1992:106173 CAPLUS

DOCUMENT NUMBER: 116:106173

TITLE: Synthesis and .alpha.-adrenergic activities of 2- and 4-substituted imidazoline and imidazole analogs

AUTHOR(S): Anemiya, Yoshiya; Hong, Seoung S.; Venkataraman, Burrah V.; Patil, Popat N.; Shama, Gamal; Romstedt, Karl; Feller, Dennis R.; Hsu, Fu Lian; Miller, Duane D.

CORPORATE SOURCE: Coll. Pharm., Ohio State Univ., Columbus, OH, 43210, USA

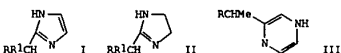
SOURCE: Journal of Medicinal Chemistry (1992), 35(4), 750-5

CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



AB Analogs I-III (R = 1-naphthyl, 2-naphthyl; R1 = H, Me) of medetomidine and naphazoline were synthesized and evaluated for their .alpha.1 (aorta) and .alpha.2 (platelet) activities. In general the 1-naphthalene analogs were the most potent inhibitors of epinephrine-induced platelet aggregation. Of considerable interest was the fact that I-III (R = 1-naphthyl) were antagonists in an .alpha.1-adrenergic system (aorta). Thus, appropriately substituted naphthalene analogs of medetomidine and naphazoline provide a spectrum of .alpha.1-agonist, .alpha.1-antagonist, and .alpha.2-antagonist activity.

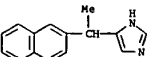
IT 137967-82-9P 137967-85-2P 137967-86-3P

137967-88-5P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. and adrenergic activity of)

RN 137967-82-9 CAPLUS

CN 1H-Imidazole, 4-[1-(2-naphthalenyl)ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)

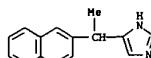


● HCl

RN 137967-85-2 CAPLUS

CN 1H-Imidazole, 2-[1-(2-naphthalenyl)ethyl]- (9CI) (CA INDEX NAME)

L11 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS (Continued)



CH 2

CRN 144-62-7

CMF C2 H2 O4

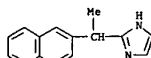


IT 137967-85-2P 137967-88-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (Synthesis and adrenergic activities of medetomidine and naphazoline analogs)

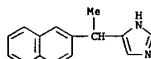
RN 137967-85-2 CAPLUS

CN 1H-Imidazole, 2-[1-(2-naphthalenyl)ethyl]- (9CI) (CA INDEX NAME)

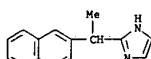


RN 137967-88-5 CAPLUS

CN 1H-Imidazole, 4-[1-(2-naphthalenyl)ethyl]- (9CI) (CA INDEX NAME)



L11 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2003 ACS (Continued)



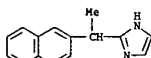
RN 137967-86-3 CAPLUS

CN 1H-Imidazole, 2-[1-(2-naphthalenyl)ethyl]-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CH 1

CRN 137967-85-2

CMF C15 H14 N2



CH 2

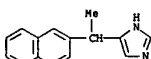
CRN 144-62-7

CMF C2 H2 O4



RN 137967-88-5 CAPLUS

CN 1H-Imidazole, 4-[1-(2-naphthalenyl)ethyl]- (9CI) (CA INDEX NAME)



L11 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1992:15364 CAPLUS

DOCUMENT NUMBER: 116:15364

TITLE: Structure-activity studies of new imidazolines on adrenoceptors of rat aorta and human platelets

AUTHOR(S): Venkataraman, B. V.; Shams, G.; Hamada, A.; Amemiya, Y.; Tantishaiyakul, V.; Hsu, F.; Fashempour, J.; Romstedt, R. J.; Miller, D. D.; et al.

CORPORATE SOURCE: Coll. Pharm., Ohio State Univ., Columbus, OH, 43210, USA

SOURCE: Naunyn-Schmiedeberg's Archives of Pharmacology (1991), 344(4), 454-63

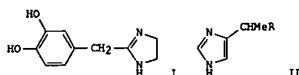
CODEN: NSAPCC; ISSN: 0028-1298

Journal

DOCUMENT TYPE: English

LANGUAGE: English

GI



AB Potencies of new arom. substituted fluoro or iodo analogs of catecholimidazoline (I) on functional responses in rat aorta (α_1) and platelets (α_2) were quantified. When compared either on the basis of EC50 or the disocn. const. (KA), 5-fluorocatecholimidazoline was as potent as the ref. α_1 -adrenoceptor agonist, phenylephrine in the vascular tissue. The max. contraction of aorta produced by the fluoro analog was, however, 17% higher than that of phenylephrine. The time required for 1/2 relaxation of the tissue after 5-fluoro hydroxy imidazoline was at least twice as long as that of the phenylephrine. The catechol moiety as well as fluorine substitution at the crit. 5-position of the arom. ring is essential for higher α_1 adrenoceptor-mediated potency. As compared to the fluoro analogs, the adrenoceptor-mediated potencies of iodo-analogs were relatively weak on vascular tissue. Naphtholine and its analogs were partial agonists on vascular tissue with disocn. consts. which ranged from 110 to 2600 nmol/L. imidazole analogs (II, R = naphthyl or xylene), were generally less potent agonist than the imidazolines by one order of magnitude. The vascular effects of all agonists were competitively blocked by prazosin with KB values which ranged from 0.04 to 0.48 nmol/L. Since the variation in KB values were within normal limits, the action of new imidazolines on rat aorta appears to be mediated mainly by the activation of the α_1 -adrenoceptor. Prazosin 10 nmol/L abolished the vascular response of some partial agonists. This indicates a slightly different mode of interaction of agonists with the transduction process. Carbon 4-substituted imidazolines produced little or no α_1 adrenoceptor-mediated intrinsic activity, but competitive receptor blocking potency was comparable to that of phentolamine. Medetomidine was a partial agonist on the rat aorta with a KA of 260 nmol/L. When investigated as a blocker, the KB of medetomidine

L11 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS (Continued)

against phenylephrine was approx. 5600 nmol/L. The variation in the latter value was high. In acetylsalicylic acid-treated human platelets, the α_2 -adrenoceptor-mediated aggregatory effect of all fluoro analogs was weak. Iodo or naphazoline analogs did not initiate platelet aggregation but blocked the aggregation induced by epinephrine. The affinity of naphazoline for the α_2 -adrenoceptor was 1100 nmol/L. The IC50 of medetomidine for platelet anti-aggregatory effect was 3300 nmol/L, which compares favorably with other imidazoline type of blockers of platelet aggregations. Sympathomimetic vasoconstrictor actions and platelet aggregation effects of these compds. can be disocd. Some vasoconstrictors were antiaggregatory. The structure-activity relationships of the two receptor systems, namely rat aorta (α_1) and platelets (α_2), are discussed.

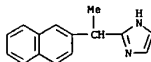
IT 137967-85-2 137967-88-5

RL: BIOL (Biological study)

(α_1 -adrenoceptors of aorta and human platelets interaction with, structure in relation to)

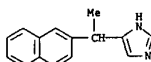
RN 137967-85-2 CAPLUS

CN 1H-imidazole, 2-[1-(2-naphthalenyl)ethyl]- (9CI) (CA INDEX NAME)



RN 137967-88-5 CAPLUS

CN 1H-imidazole, 4-[1-(2-naphthalenyl)ethyl]- (9CI) (CA INDEX NAME)



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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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486.32

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

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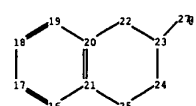
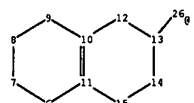
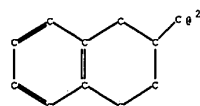
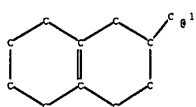
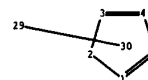
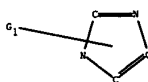
SESSION

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-5.21

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chain nodes :

26 27 29

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
22 23 24 25

chain bonds :

13-26 23-27

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 10-12 11-15
12-13 13-14 14-15 16-17 16-21 17-18 18-19 19-20 20-21 20-22
21-25 22-23 23-24 24-25

exact/norm bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 10-12 11-15
12-13 13-14 14-15 20-22 21-25 22-23 23-24 24-25

exact bonds :

13-26 23-27

normalized bonds :

16-17 16-21 17-18 18-19 19-20 20-21

G1: [*1], [*2]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom
18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom
26:CLASS 27:CLASS 29:CLASS 30:CLASS